

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (currently amended) A fire extinguishing system including a nozzle having a cavity, and at least one extinguishant outlet for discharging extinguishant from the cavity into a fluid-filled volume, which outlet is fixed in use, the arrangement being such that a rotational movement of the fluid, including the extinguishant, within the volume is induced a source of fire extinguishant fluid, a nozzle body having a wall defining an interior cavity of the nozzle body, an extinguishant inlet for receiving the extinguishant fluid into the cavity, and at least one extinguishant outlet formed in the wall for discharging extinguishant fluid from the cavity into a fluid-filled volume for extinguishing a fire in that fluid-filled volume, which outlet is fixed in use, the arrangement of the outlet being such that a rotational movement of the fluid, including the extinguishant, within the fluid-filled volume is induced which tends to distribute the extinguishant fluid homogenously within the fluid-filled volume.
2. (original) A system according to claim 1, wherein at least a portion of the or each outlet is inclined with respect to any plane which is parallel to and passes through the central axis of the cavity and which intersects the portion of the or each outlet.
3. (original) A system according to claim 1, wherein a plane which lies parallel to the central axis of the cavity and extends along the central axis of at least a portion of the or each outlet is inclined with respect to the interior wall of the cavity at the region where the outlet meets the interior wall.

U.S. Patent Application Serial No. 10/822,190

Reply to Office Action of July 25, 2007

4. (original) A system according to claim 1, wherein the or each outlet extends tangentially from the interior wall of the cavity.
5. (original) system according to claim 1, in which the direction of flow of the extinguishant in the cavity towards the outlet is aligned with an axis of symmetry of the cavity and in which the axis of at least the distal portion of the outlet does not intersect that axis of symmetry.
6. (original) A system according to claim 1, wherein the or each outlet includes a portion which extends radially with respect to the central axis of the cavity.
7. (withdrawn) A system according to claim 1, wherein a plurality of outlets are provided, each having a portion with a different inclination with respect to a radius extending from the central axis of the cavity.
8. (original) A system according to claim 1, wherein the or each outlet is inclined with respect to a plane perpendicular to the central axis of the cavity.
9. (original) A system according to claim 1, wherein the nozzle comprises a hollow tube having one or more of said outlets formed therein.
10. (withdrawn) A system according to claim 9, wherein the nozzle comprises a plurality of said tubes.
11. (withdrawn) A system according to claim 10, wherein each of said tubes is coupled together at one end thereof for fluid communication with a supply of the extinguishant.

12. (withdrawn) A system according to claim 11, wherein each of said tubes is generally linear and is spaced from each of said tubes adjacent thereto by a substantially equal predetermined angle.

13. (withdrawn) A system according to claim 10, wherein the nozzle comprises three or more of said tubes.

14. (currently amended) A system according to claim 8 9, wherein a plurality of said outlets are formed in said tube.

15. (original) A system according to claim 14, wherein said outlets are equi-spaced.

16. (currently amended) A fire extinguishing spray nozzle ~~having a cavity and at least one outlet for discharging extinguishant from the cavity, at least a portion of the outlet being that does not move in use having a nozzle body with two end portions located generally opposite to one another and spaced apart by a sidewall, the end portions and the sidewall defining a cavity and at least one outlet extending through the sidewall for discharging extinguishant from the cavity, at least a portion of the outlet being straight and inclined with respect to any plane which is parallel to and passes through the central axis of the cavity and which intersects the portion of the or each outlet.~~

17. (currently amended) A chamber containing fluid, such as air, having a fire extinguishing spray nozzle mounted therein, ~~which nozzle is fixed in use, the arrangement being such that, in use, the extinguishant emitted from the nozzle and the fluid within the chamber turns angularly about the nozzle~~ the nozzle including a source of fire extinguishant fluid, a nozzle body having a wall defining an interior cavity of the nozzle body, an extinguishant inlet for receiving the

extinguishant fluid into the cavity, and at least one extinguishant outlet formed in the wall for discharging extinguishant from the cavity into the chamber for extinguishing a fire in that chamber, which outlet is fixed in use, the arrangement of the outlet being such that, in use, the extinguishant emitted from the outlet and the fluid within the chamber turns angularly about the nozzle which tends to distribute the extinguishant fluid homogenously within the fluid-filled volume.

18. (withdrawn) A fire extinguishing system including means for supplying a pressurised extinguishant, a nozzle having a cavity for receiving the extinguishant and having at least one outlet for expelling the extinguishant, in use the arrangement being such that at the entrance to the or each outlet, the extinguishant travels generally radially with respect to the central axis of the cavity, and such that the configuration of the outlet deviates the path of the fire extinguishant from the radial direction so that when the extinguishant exits the outlet it travels in a non-radial direction.

19-21. (cancelled)

22. (New) A system according to claim 2, wherein a plurality of said outlets are provided.

23. (New) A system according to claim 22, wherein the inclination of all said outlets with respect to said any plane is in a clockwise direction about the central axis of the cavity or the inclination of all said outlets with respect to said any plane is in an anti-clockwise direction about the central axis of the cavity.

24. (New) A method of extinguishing a fire in a fluid-filled chamber including supplying a fire extinguishant fluid into an interior cavity of a nozzle body and discharging the extinguishant

U.S. Patent Application Serial No. 10/822,190

Reply to Office Action of July 25, 2007

fluid through at least one extinguishant outlet formed in a wall of the interior cavity and into the fluid-filled chamber, wherein the outlet is fixed in use, and the arrangement of the outlet is such that rotational movement of the fluid, including the extinguishant fluid, is induced within the chamber which tends to distribute the extinguishant fluid homogenously within the fluid-filled chamber.